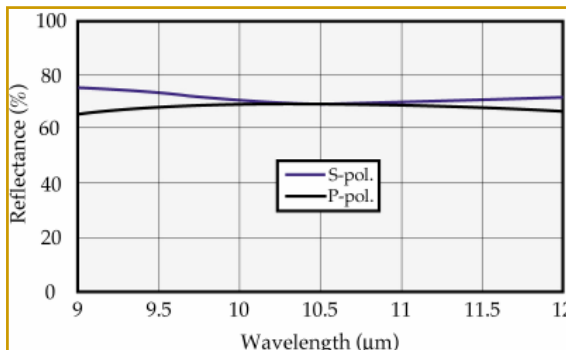


# Non-Polarizing IR Beamsplitters



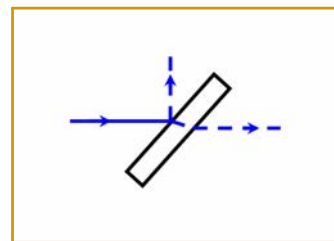
These non-polarizing beamsplitters are intended for use at specific laser wavelengths in the infra-red spectral region. They produce the same reflectance for both s- and p- components thereby leaving the state of polarization unchanged while splitting the incoming beam into two parts.



These beamsplitters have an all-dielectric splitter coating on one side and an anti-reflection coating on the other. They are available on either Zinc Selenide or Germanium substrates.

Mirrors are optimised for use at the chosen laser wavelength for 45° angle of incidence.

Any reflectance from 1% to 99.5 % may be selected. All common IR laser wavelengths can be accommodated.



Standard diameters are 9.53, 12.7, 19.1, 25.4, 17.9, 38.1, and 50.8 mm.

Thickness ranges from 2 to 5 mm as appropriate to control the flatness specification.

Typical Specifications	
Substrate Material:	ZnSe or Ge
Surface flatness:	$\lambda/20$ @ 10.6 $\mu\text{m}$
Surface quality:	40/20
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	$\pm 0.25$ mm
s-p :	<5%
AOI:	45 $\pm$ 3deg
Reflectance Tolerance:	<10% or > 99.5% $\pm$ 0.5%
	86 - 93% $\pm$ 3%
	11 - 85% $\pm$ 5%
AR coating:	R<0.25%
Absorbance:	< 0.4% per surface
Clear aperture:	> 85% of diameter

To request a quote or to order, please specify:

Quantity — Substrate Material — Diameter — Reflectance — Wavelength

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For a quotation — please phone, fax or email us with details of your requirements.